Inventor: GILL et al.
Docket No.: 07500.0455USWO
Title: IMPROVEMENTS IN AND RELATING TO THE ANALYSIS OF DNA
Attorney Name: Gregory A. Sebald
Phone No.: 612.336.4728
Sheet I of 6

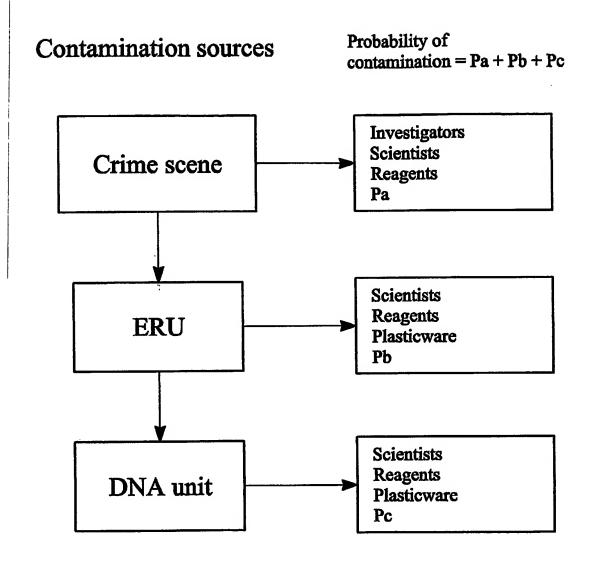
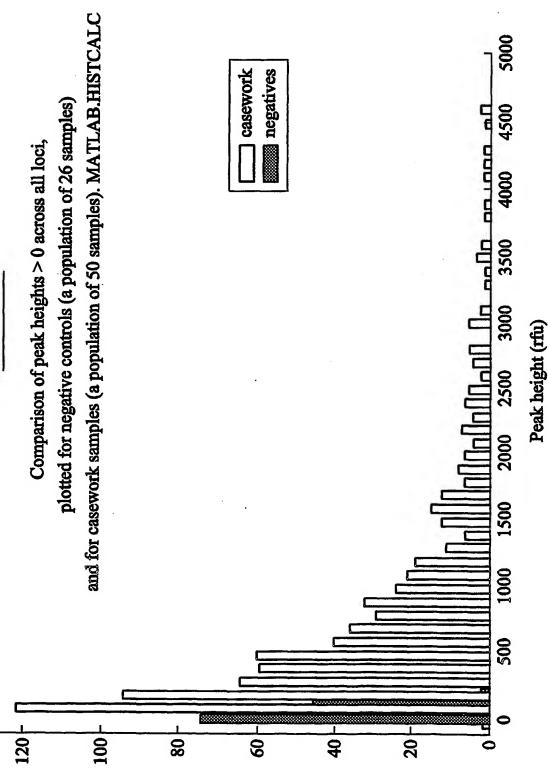


FIG. 1

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Table 1: Case samples ranked in order of increasing summed peak height with numbers of allales scored above a given peak height.

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Sample	no.	26	15	3	16	-	∞	14	4	7	6	20	17	9	18	5	72	7	10	19	13	12	25	21	23	11	22
	>250	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>200	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>150	3	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no. alleles	>100	5	4	-	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>20	16	6	9	3	2	0	2	-	6	2	-	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0
	>25	16	17	10	11	9	6	9	S	4	4	e	2	2	-	1	-	-	-	-	1	-	1	-	-		0
	ጽ	16	17	11	11	co	10	7	7	જ	4	m	43	2		1	2	-	2	1	2	1		ı	-	1	1
Sum	peak height	1217	1109	569	481	413	334	290	242	234	226	140	104	29	64	09	51	30	20	20	46	36	36	33	33	31	16

Table 2: Negative controls ranked in descending order of intensity, taken from a population of 295 negative controls - only 26 controls that gave a signal are listed ie 275 controls were blank.

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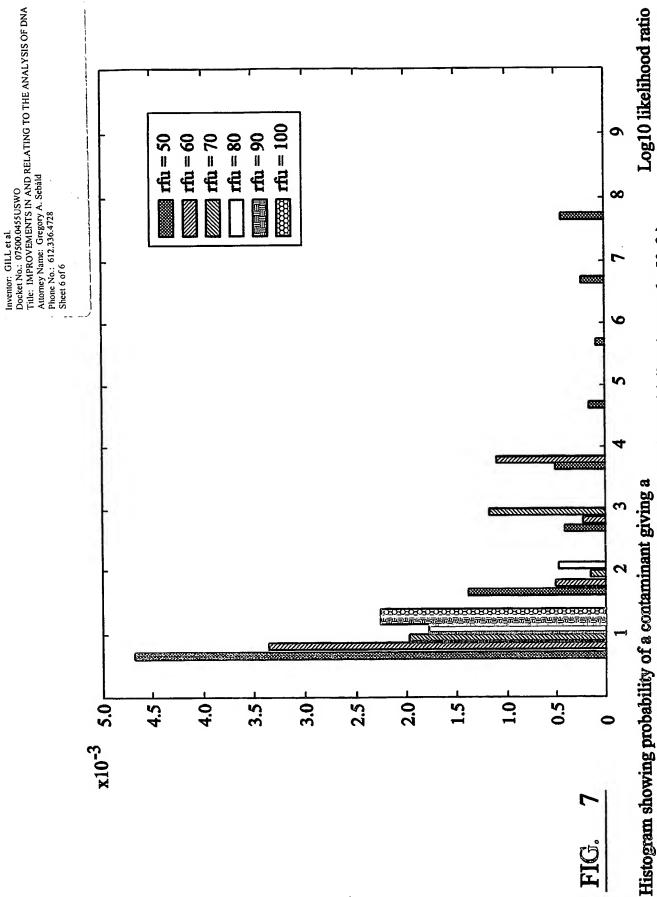
Mixture (Mx)	No. observations	Probability		
Case sample only	12105	0.8207		
Negative sample only	130	0.0088		
no sample	1345	0.0912		
<=.1>0	973	0.0660		
<=.2>.1	73	0.0049		
<=.3>.2	30	0.0020		
<=.4>.3	19	0.0013		
<=.5>.4	9	0.0006		
<=.6>.5	9	0.0006		
<=.7>.6	9	0.0006		
<=.8>.7	4	0.0003		
<=.9>.8	6	0.0004		
<= 1>.9	5	0.0003		
<= 2>1	11	0.0007		
<=10>2	19	0.0013		
<= 25 > 10	3	0.0002		
Total	14750			

FIG. 5

	Guideline (rfu)									
Log10 LR	rfu = 50	rfu = 60	rfu = 70	rfu = 80	rfu = 90	rfu = 100				
1	0.00746	0.00502	0.00319	0.00251	0.00339	0.00339				
2	0.00217	0.00095	0.00014	0.00088	0	0				
3	0.00027	0.00041	0.00210	0	0	0				
4	0.00095	0.00183	0	0	0	0				
5	0.00014	0	0	0	0	0				
6	0.00007	0	0	0	0	0				
7	0.00020	0	0	0	. 0	0				
8	0.00088	'0	0	0	0	0				
9	0	0	0	0	0	0				

Table 4: Probability estimates for achieving a given likelihood ratio where a laboratory contaminant is responsible for the major (unmixed) profile.

FIG. 6



reportable result (measured as log10 LR) relative to the reporting guideline (currently 50rfu)